SCIENCE DISCOVERED ETHER WAVES IN 1865

Inventor of the Audion Traces Development of Wireless and Marks the Important Milestones of Progress -1907 Noted as a Turning Point

By DR. LEE DE FOREST.

ADIO, in reality, is more than 60 years old Broadcasting, from which hundreds of thousands which hundreds of thousands in the process of the process

Branly Invents Coherer.

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The next important step connecting the former two with our present-day radio was in the year 1890, when Professor, Branty discovered that a short glass the loosely filled with firm rends fillings active to the property of the pro

The Electrolytic Detector.

telephone receiver which this made postible.

The Electrostyte Detector.
The following year Professor Pessendran brought out another type of selfrestoring cohere, an electroyite detector, consisting of a small platfurm whrefreed the programment of the professor of the
creased in Jasa the tho of which with a
small section of the wire protruding and
in contact with a weak solution of nitric
seld, across the terminals of which there
reliable reculifier and permitted more
registral use of head phones than had
heretefore been possible. The use of tech
heretefore been possible of the use of tech
heretefore been possible. The use of tech
heretefore been possible. The use of tech
hines. Marconi, working along similar
lines, these of rendering the reading of
signals better and easter, then invented
hines, these of rendering the reading of
signals better and easter, then invented
the magnetic dector which Professor
for the latter-day crystal detector;
It was early during this heatel period
that I made the initial discovery which
was latter to result in the first 'audion.'
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I had upon several occasion noted a
most novel phenomenon in the Hildering
of Woldshort Jan Hilder was resilially
accomplished at that time,
the professor of the professor of the professor
has provided the professor
has provided the professor
has provided to the professor
has provided to the professor
has been recreated. The Amende to deretiably.

Concer Bland and numerous other places
has been recreated. The Amende to deretiable of the professor o

tunity for displaying the progress attained. The wireless stations installed were among the chief centres of interactions are not as the content of the property of the project where fear-some articles, consisting of large cells with multituinous brass switches and probably an unlovely looking variable condenser of about the dimensions of the present day "glant storage battery," to be condensed to about the dimensions of the present day "glant storage battery," to be condensed as the condense of about the condense of about the present day "glant storage battery," to be, consisting of high random and gave a spark two or three inches across which could be heard for half a mile or more. In England ruck transmitters with the contacts of which generally sparked and areed almost as badly as did the gap itself.

Poulson Used an Are.

During the year 1903 the Danish inventor Foulson designed an arc transmitter carable of generating undamped waves and succeeded in covering greater

Tower as a support for our antennae. The transmission program on this occasion consisted of replaying constantly a few talking machine records throughout the greater part of an entire night and then well instend the machine the next and the result of the warfows French wireless stations at to how Tower had been heard and how good was the reception.

During 1910-11-12 the general use of support of the program of the program

distances by means of it than would an ordinary spark transmitter of twice the power.

On Jan. 15, 1907, I was essented the first peated on the "audion" or first practical three electrosic vacuum tube. The was the notion of a constraint of the process of the peated of

special transmitter consisting of 150 oscillons or high-power "audions" for oscillons purposes was used and one-way consumitation was established to Paris and Honolulu. This experiment demonstrated to radio engineers with-out a doubt that the three-feeterede oscillator could be used for power telephoral control of the c